

Lerchl et al.
Serial No. **Unassigned**

REMARKS

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

The attached paper and computer readable copies of the Sequence Listing are the same. No new matter has been added. A separate Statement to this effect is attached.

The above amendments are made to place the claims in a more traditional format.

Respectfully submitted,

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By: _____



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

6. (Amended) The use of a DNA sequence as claimed in claim 1 [or 2] for introduction into pro- or eukaryotic cells, this sequence optionally being linked to control elements which ensure transcription and translation in the cells and leading to the expression of a translatable mRNA which causes the synthesis of a plant PRPP amidotransferase.

7. (Amended) The use of a DNA sequence as claimed in claim 1 [or 2] for generating an assay system for identifying herbicidally active plant PRPP amidotransferase inhibitors.

8. (Amended) A method of finding herbicidally active substances which inhibit the activity of the plant PRPP amidotransferase, which comprises preparing, in a first step, PRPP amidotransferase using a DNA sequence as claimed in claim 1 [or 2] and measuring, in a second step, the activity of the plant PRPP amidotransferase in the presence of a test substance.

11. (Amended) An assay system based on the expression of a DNA sequence SEQ-ID No. 1 or SEQ-ID No.9 as claimed in claim 1 [or 2] for identifying herbicidally active plant PRPP amidotransferase inhibitors.

14. (Amended) A plant PRPP amidotransferase inhibitor identified using an assay system as claimed in claim 11 [or 12].

15. (Amended) An inhibitor as claimed in claim 13 [or 14] for use as herbicide.